TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	25.08.2019	1.09.2019	7 days	8.300	22500	455	20.22	20.12
2	25.08.2019	1.09.2019	7 days	8.320	22500	452	20.09	
3	25.08.2019	1.09.2019	7 days	8.325	22500	451	20.04	

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TEJUS CONSULTANTS

Authorised Signatory

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	25.08.2019	22.09.2019	28 days	8.132	22500	680	30.22	30.34
2	25.08.2019	22.09.2019	28 days	8.140	22500	683	30.36	
3	25.08.2019	22.09.2019	28 days	8.142	22500	685	30.44	

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Bangalore.

TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	26.08.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	285	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6.00	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	31.00%	25 % to 35

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Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N Lokanath Reddy

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	Raft concrete
Location/Source	At Site/Plant	**Date of Sampling**	26.08.2019
Period of Soaking	24 hours	**Date of Testing**	26.08.2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		654	677	652	
B	Weight of oven - dry sample gm.		646	666	640	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1689	1701	1686	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.692	2.653	2.656	**2.667**
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.238	1.652	1.875	**1.588**

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Assistant Executive Engineer
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Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. N Lokanath Reddy

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	Raft concrete
Sample Location	At Site/Plant	**Date of Sampling**	26.08.2019
		Date of Testing	26.08.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	234	234	7.80	92.20	90 - 100
2.36 mm	307	541	18.03	81.97	75 - 100
1.18 mm	415	956	31.87	68.13	55 - 90
0.600 mm	487	1443	48.10	51.90	35 -59
0.300 mm	718	2161	72.03	27.97	8-30
0.150 mm	619	2780	92.67	7.33	0 - 10
Pan	220	3000			-

Remarks : Satisfactory / Not Satisfactory

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Assistant Executive Engineer,
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Bangalore.

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. N Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	Plant/At site		**Date of Sampling**	26.08.2019	
			Date of Testing	26.08.2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	284	284	2.84	97.16	**95 - 100**
10.00 mm	4845	5129	51.29	48.71	**25 - 55**
4.75 mm	4219	9348	93.48	6.52	**0 - 10**
Pan	652	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Assistant Executive Engineer,
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Bangalore.

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. N Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	Raft Concrete	
Sample Location	At Site/Plant		**Date of Sampling**	26.08.2019	
			Date of Testing	26.08.2019	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	550	550	5.50	94.50	**90-100**
10.0	4634	5184	51.84	48.16	**40-85**
4.75	4526	9710	97.10	2.90	**0-10**
Pan	290	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
Bangalore

TEJUS CONSULTANTS

Authorised Signatory

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CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26.08.2019	2.09.2019	7 days	8.300	22500	452	20.09	20.13
2	26.08.2019	2.09.2019	7 days	8.320	22500	455	20.22	
3	26.08.2019	2.09.2019	7 days	8.325	22500	452	20.09	

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Authorised Signatory

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26.08.2019	23.09.2019	28 days	8.132	22500	682	30.31	30.31
2	26.08.2019	23.09.2019	28 days	8.140	22500	687	30.53	
3	26.08.2019	23.09.2019	28 days	8.142	22500	677	30.09	

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Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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NABL ACCREDITED AS PER ISO/IEC 17025:2017

Job No.: CECTC/LNR/QC/ 2019-20 Date: 30.08.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhath Bangalore Mahanagara Palike**
Agency : **Sri. N Lokanath Reddy,** Contractor, Bangalore.
Name of Work : Construction of RCC Retaining Wall near Water Tank (Behind Govt.School) in Sanjeevinninagara in Ward No.07.Byatarayanapura.

Location : For Wall
Sample Identification : 10mm, 12mm, 20mm & 25mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test: : 30.08.2019

SLNo	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	10	0.617	504	556	19
2	12	0.889	516	567	20
3	20	2.465	525	574	21
4	25	3.858	538	589	22

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For Civil Experts

Authorised Signature

Assistant Executive Engineer,
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Bangalore.

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.

Test Report on Cement

TEJUS CONSULTANTS

Project	Construction of RCC retaining Wall near Water tank (behind govt School in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	31.08.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	262	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEJUS CONSULTANTS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeeviningara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N Lokanath Reddy

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	31.08.2019
Period of Soaking	24 hours	Date of Testing	31.08.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	680	655	
B	Weight of oven - dry sample gm.	638	670	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1685	1703	1685	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.658	2.659	2.645	2.654
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.881	1.493	1.080	1.485

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeeviningara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. N Lokanath Reddy

TEJUS CONSULTANTS

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	31.08.2019
		Date of Testing	31.08.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	250	250	8.33	91.67	90 - 100
2.36 mm	322	572	19.07	80.93	75 - 100
1.18 mm	432	1004	33.47	66.53	55 - 90
0.600 mm	492	1496	49.87	50.13	35 -59
0.300 mm	720	2216	73.87	26.13	8-30
0.150 mm	625	2841	94.70	5.30	0 - 10
Pan	159	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Bangalore.

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. N Lokanath Reddy	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/At site	Date of Sampling	31.08.2019
		Date of Testing	31.08.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	274	274	2.74	97.26	95 - 100
10.00 mm	4852	5126	51.26	48.74	25 - 55
4.75 mm	4224	9350	93.50	6.50	0 - 10
Pan	650	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri. N Lokanath Reddy	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete
Sample Location	At Site/Plant	Date of Sampling	31.08.2019
		Date of Testing	31.08.2019

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	544	544	5.44	94.56	90-100
10.0	4624	5168	51.68	48.32	40-85
4.75	4526	9694	96.94	3.06	0-10
Pan	306	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

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CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	31.08.2019	07.09.2019	7 days	8.300	22500	462	20.53	20.33
2	31.08.2019	07.09.2019	7 days	8.320	22500	458	20.36	
3	31.08.2019	07.09.2019	7 days	8.325	22500	452	20.09	

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